



# vRealize Automation

## Deployment Guide

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# 1 Introduction

VMware's vRealize Automation provides cloud automation software that facilitates the delivery and management of infrastructure and accelerating the deployment and release of applications. It allows deployment across multi-vendor hybrid cloud infrastructure and greatly reduces the time required to provision services, reducing costs and improving business agility. End-users are given different service levels, policies and automation processes, as appropriate for their needs.

The Kemp LoadMaster is able to load balance the vRealize Automation IaaS Web Server workload. The LoadMaster offers advanced Layer 4 and Layer 7 server load balancing, SSL Acceleration and a multitude of other advanced Application Delivery and Optimization (ADC) features. The LoadMaster intelligently and efficiently distributes user traffic among the application servers so that users get the best experience possible.

## 1.1 Document Purpose

This document provides guidance on how to deploy vRealize Automation with a Kemp LoadMaster. The Kemp Support Team is available to provide solutions for scenarios not explicitly defined.

The Kemp support site can be found at: <https://support.kemptechnologies.com>.

# 2 Template

Kemp has developed a template containing our recommended settings for this workload. You can install this template to help create Virtual Services (VSs) because it automatically populates the settings. You can use the template to easily create the required VSs with the recommended settings. You can remove templates after use and this will not affect deployed services. If needed, you can make changes to any of the VS settings after using the template.

Download released templates from the following page: [LoadMaster Templates](#).

For more information and steps on how to import and use templates, refer to the [Virtual Services and Templates, Feature Description](#).

# 3 Configure vRealize Automation Virtual Services

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The environment in which vRealize Automation is deployed determines which of the following setups should be used.

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## 3.1 Enable Subnet Originating Requests Globally

It is best practice to enable the **Subnet Originating Requests** option globally.

In a one-armed setup (where the Virtual Service and Real Servers are on the same network/subnet) **Subnet Originating Requests** is usually not needed. However, enabling **Subnet Originating Requests** should not affect the routing in a one-armed setup.

In a two-armed setup where the Virtual Service is on network/subnet A, for example, and the Real Servers are on network B, **Subnet Originating Requests** should be enabled on LoadMasters with firmware version 7.1-16 and above.

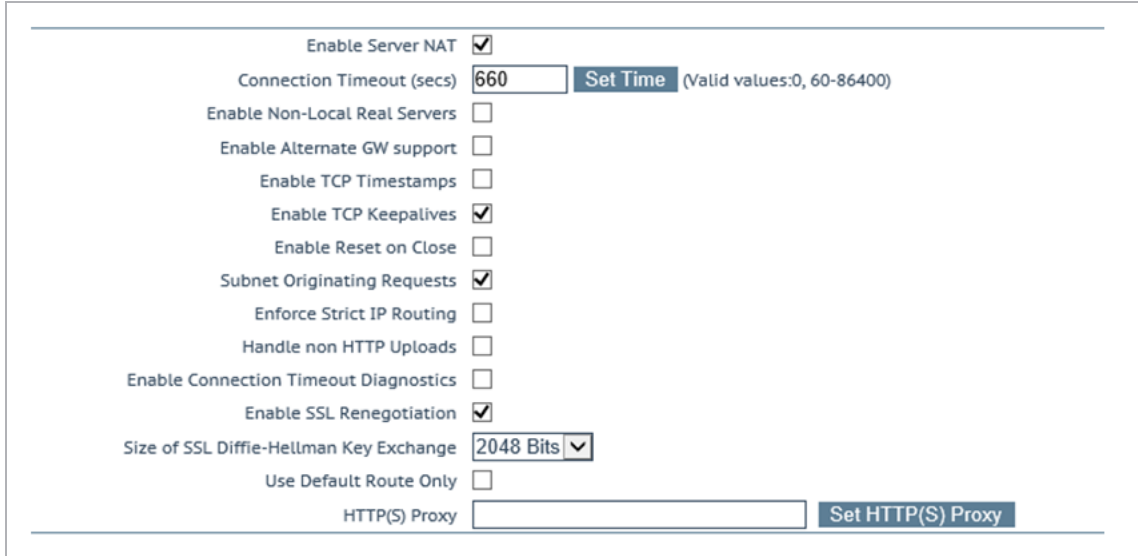
When **Subnet Originating Requests** is enabled, the LoadMaster routes traffic so that the Real Server sees traffic arriving from the LoadMaster interface that is in that network/subnet.

When **Subnet Originating Requests** is enabled globally, it is automatically enabled on all Virtual Services. If the **Subnet Originating Requests** option is disabled globally, you can choose whether to enable **Subnet Originating Requests** on a per-Virtual Service basis.

To enable **Subnet Originating Requests** globally, follow the steps below:

1. In the main menu of the LoadMaster Web User Interface (WUI), go to **System Configuration > Miscellaneous Options > Network Options**.

### 3 Configure vRealize Automation Virtual Services



The screenshot shows a configuration window with the following settings:

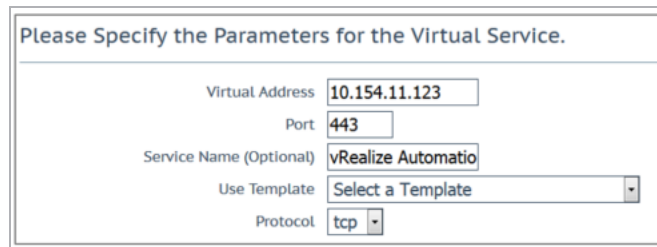
- Enable Server NAT: ☒
- Connection Timeout (secs): 660 (Valid values: 0, 60-86400) [Set Time]
- Enable Non-Local Real Servers: ☐
- Enable Alternate GW support: ☐
- Enable TCP Timestamps: ☐
- Enable TCP Keepalives: ☒
- Enable Reset on Close: ☐
- Subnet Originating Requests: ☒
- Enforce Strict IP Routing: ☐
- Handle non HTTP Uploads: ☐
- Enable Connection Timeout Diagnostics: ☐
- Enable SSL Renegotiation: ☒
- Size of SSL Diffie-Hellman Key Exchange: 2048 Bits
- Use Default Route Only: ☐
- HTTP(S) Proxy: [Set HTTP(S) Proxy]

2. Select the **Subnet Originating Requests** check box.

## 3.2 vRealize Automation IaaS Web Virtual Service

The following are the steps involved and the values required to configure the vRealize Automation VRA VC Web Virtual Service:

1. In the main menu of the LoadMaster Web User Interface (WUI), go to **Virtual Services > Add New**.



The dialog box contains the following fields:

- Virtual Address: 10.154.11.123
- Port: 443
- Service Name (Optional): vRealize Automatio
- Use Template: Select a Template
- Protocol: tcp

2. Enter a valid IP address in the **Virtual Address** text box.
3. Enter **443** in the **Port** text box.
4. Enter a recognizable Service Name, for example **vRealize Automation IaaS Web**.
5. Ensure **tcp** is selected as the **Protocol**.
6. Click **Add this Virtual Service**.

## 3 Configure vRealize Automation Virtual Services

7. Enter the details shown in the following table:

Section	Option	Value	Comment
<b>Standard Options</b>	Transparency	Deselected	
	Persistence Mode	Source IP Address	
	Timeout	6 Minutes	
	Scheduling Method	Least Connection	
	Idle Connection Timeout	360	
<b>SSL Properties</b>	SSL Acceleration	Enabled Reencrypt	A wildcard certificate allows secure connections to be established with a request URL in the format of *.example.com. With this approach, a single certificate secures traffic for all clients in a multi-tenant environment.
	Supported Protocols	TLS1.0	While this workload may not support TLS1.3 yet, Kemp recommend enabling it for future proofing.
		TLS1.1	
		TLS1.2	
		TLS1.3	
	Cipher Set	BestPractices	
<b>Advanced Properties</b>	Content Switching	Disabled	
	Add HTTP Headers	Legacy Operation (X-ClientSide)	



## 3 Configure vRealize Automation Virtual Services

Section	Option	Value	Comment
<b>Real Servers</b>	Real Server Check Method	HTTPS Protocol	
	URL	/wapi/api/statusweb	Click <b>Set URL</b> .
	Checked Port	443	
	HTTP Method	GET	

Users should note that clicking the Add HTTP Redirector button, automatically creates a redirect Virtual Service on Port 80.

## 8. Add the Real Servers:

- Click the **Add New** button.
- Enter the address of the **vRealize Automation IaaS Web** Server.
- Enter **443** as the **Port**.

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The Real Server Port should match the Virtual Service Port.

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The Forwarding method and Weight values are set by default. An administrator can change these.

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- Click **Add this Real Server**. Click **OK** to the pop-up message.
- Repeat the steps above to add more Real Servers as needed, based on the environment.

# Last Updated Date

This document was last updated on 27 July 2023.